

SITE IDENTIFICATION: Mt. Blue: Site 4, pit #1

DRAINAGE CLASS: Somewhat poorly drained

SOIL SERIES (CLOSEST MATCH): Colonel

HYDRIC CLASSIFICATION: Nat. - no; NE - no

SSWWD DEPTH TO LIMITING FACTOR: 3D-13" to pan and swt

HORIZON	DEPTH (IN.)	MATRIX COLOR	TEXTURE	STRUCTURE	CONSISTENCE	REDOX FEATURES	NOTES / OBSERVATIONS
O	0"-4"						
E	4"-7"	10yr 5/2	Fine sandy loam	granular	friable	none	
Bs1	7"-13"	7.5yr 4/6	Fine sandy loam	Sub-angular blocky	friable	none	
Bs2	13"-17"	10yr 4/4	Fine sandy loam	Sub-angular blocky	friable	none	
B/C	17"-19"	2.5Y 5/4	Fine sandy loam	Sub-angular blocky	Somewhat firm	none	Differential organic matter accumulation
Cd	19"+	2.5y 4/4	Fine sandy loam	platy	firm	Few fine distinct conc. between plates	Differential organic matter accumulation

COMMENTS: Convex/linear position on the landscape.

Open pit groundwater Table Depth (from mineral soil surface):

8/1/12-**none**; 8/31/12-**none**; 9/14/12-**none**; 9/25/12-**none**; 10/4/12-**none**; 10/8/12-**none**; 10/11/12-**none**; 10/15/12-**none**; 10/28/12-**none**; 10/30/12-8"; 11/2/12-**none**; 6/3/13-**none**; 6/23/13-11"; 7/2/13-9.5"; 7/8/13-9.5"; 7/9/13-**none**; 7/16/13-**none**; 7/30/13-**none**; 7/31/13-**none**; 8/6/13-**none**; 8/13/13-**none**; 8/22/13-**none**

SITE IDENTIFICATION: Mt. Blue: Site 4 pit #2

DRAINAGE CLASS: Somewhat Poorly Drained

SOIL SERIES (CLOSEST MATCH): Colonel

HYDRIC CLASSIFICATION: Nat. - no; NE - no

SSWWD DEPTH TO LIMITING FACTOR: 3E - 0" to swt

HORIZON	DEPTH (IN.)	MATRIX COLOR	TEXTURE	STRUCTURE	CONSISTENCE	REDOX FEATURES	NOTES / OBSERVATIONS
O	0"-3"						
A	3"-5"	10yr 2/2	Fine sandy loam	granular	friable	none	
Bw	5"-8"	10yr 5/3	Fine sandy loam	granular	friable	15% redox depletions 20% redox conc.	
B/C	8"-20"	2.5y 4/4	Fine sandy loam	Sub-angular blocky	Somewhat firm	5% redox depletions 2% redox conc.	
Cd	20"+	2.5y 4/3	Fine sandy loam	Sub-angular blocky	firm	20% redox depletions 20% redox conc.	

COMMENTS: Concave position on the landscape.

Open pit groundwater table depth (from the mineral soil surface):

8/1/12-18"; 8/31/12-10.5"; 9/14/12-8.5"; 9/25/12-6.5"; 10/4/12-5.5"; 10/8/12-5"; 10/11/12-3"; 10/15/12-4"; 10/28/12-5"; 10/31/12-0"; 11/2/12-2.5"; 6/3/13-4"; 6/28/13-5"; 7/2/13-2"; 7/8/13-2"; 7/9/13-2.5"; 7/16/13-5"; 7/30/13-3"; 7/31/13-3.5"; 9/6/13-2.5"; 8/13/13-2.5"; 8/22/13-2.5"

SITE IDENTIFICATION: Mt. Blue: Site 4 pit #3

DRAINAGE CLASS: Poorly Drained

SOIL SERIES (CLOSEST MATCH): Brayton or Pillsbury

HYDRIC CLASSIFICATION: Nat.-A4, F3; NE-II

SSWWD DEPTH TO LIMITING FACTOR: 3E - 0" to swt

HORIZON	DEPTH (IN.)	MATRIX COLOR	TEXTURE	STRUCTURE	CONSISTENCE	REDOX FEATURES	NOTES / OBSERVATIONS
Live sphagnum moss	2"-0"						
O	0"-2"						
A	2"-7"	2.5y 4/1	Sandy loam	granular	friable	5% redox conc.	H2S odor
Bw (Bg)	7"-20"	10yr 4/4	Sandy loam	Sub-angular blocky	firm	20% redox depletions 20% redox conc.	Differential organic matter accumulation
Cd	20"+	10yr 5/3	Sandy loam	platy	firm	20% redox depletions 20% redox conc.	
							Note: NE Indicators do not allow for an A or Ap horizon to be a depleted or gelyed matrix

COMMENTS: On a 20% side slope grade.

Open pit groundwater table depth (below the mineral soil surface):

8/1/12-6"; 8/31/12-6.5"; 9/14/12-5"; 9/25/12-1.5"; 10/4/12- 1"; 10/8/12- 1"; 10/11/12-0.5"; 10/15/12-1"; 10/28/12- 1.5"; 10/30/12-0"; 11/2/12-(-)1.5"; 6/3/13- 2"; 6/23/13-1"; 7/2/13-(-)1"; 7/8/13-(-)1"; 7/9/13-2.5"; 7/16/13-3"; 7/30/13-2"; 7/31/13-1"; 8/6/13-0"; 8/13/13-0"; 8/22/13-4.5"

SITE IDENTIFICATION: Mt. Blue: Site 4 pit #4

DRAINAGE CLASS: SWP (VPD if umbric epipedon)

SOIL SERIES (CLOSEST MATCH): Cornish

HYDRIC CLASSIFICATION: Nat.-(A5?); NE-no

SSWWD DEPTH TO LIMITING FACTOR: 11E - 0" to swt (design on a profile 8)

HORIZON	DEPTH (IN.)	MATRIX COLOR	TEXTURE	STRUCTURE	CONSISTENCE	REDOX FEATURES	NOTES / OBSERVATIONS
O	0"-1"						
A1	1"-6"	10yr 3/2	Mucky loam	granular	friable	none	
A2	6"-9"	10yr 2/1	Mucky loam	granular	friable	none	
Bw	9"-15"	10yr 4/4	fine sandy loam/loam	Sub-angular blocky	friable	20% redox depletions 20% redox conc.	
B/C	15"+	10yr 4/4	Loamy fine sand to silt loam	Sub-angular blocky	friable	20% redox depletions 20% redox conc.	Differential organic matter accumulation
							Alluvial deposits to the depth evaluated (washed from slope above)

COMMENTS: Groundwater discharge area.

Open pit groundwater table depth (from mineral soil surface):

8/1/12-**none**; 8/31/12-**none**; 9/14/12-**15"**; 9/25/12-**2.5"**; 10/4/12-**0"**; 10/8/12-**0"**; 10/11/12-**0"**; 10/15/12-**0"**; 10/28/12-**0.5"**; 10/30/12-**0"**; 11/2/12- **(-)1.5"**; 6/3/13-**(-)1"**; 6/23/13-**9"**; 7/2/13-**(-)1"**; 7/8/13-**(-)1"**; 7/9/13-**(-)1"**; 7/16/13-**10"**; 7/30/13-**2"**; 7/31/13-**11"**; 8/6/13-**8"**; 8/13/13-**7"**; 8/22/13-**none**

SITE IDENTIFICATION: Mt. Blue: Site 3 pit #1

DRAINAGE CLASS: SWP

SOIL SERIES (CLOSEST MATCH): Colonel

HYDRIC CLASSIFICATION: Nat.-no; NE-no

SSWWD DEPTH TO LIMITING FACTOR: 3D-12" to swt

HORIZON	DEPTH (IN.)	MATRIX COLOR	TEXTURE	STRUCTURE	CONSISTENCE	REDOX FEATURES	NOTES / OBSERVATIONS
O	0"-2"						
E	2"-3.5"	7.5yr 5/1	Fine sandy loam	granular	friable	none	
Bhs	3.5"-6"	5yr 3/3	Fine sandy loam	Sub-angular blocky	friable	none	
Bs1	6"-9"	5yr 4/4	Fine sandy loam	Sub-angular blocky	friable	none	
Bs2	9"-14"	7.5yr 4/4	Fine sandy loam	Sub-angular blocky	friable	none	
B/C	14"-19"	10yr 5/3	Fine sandy loam	Sub-angular blocky	friable	5% redox depletions 5% redox conc.	Differential organic matter accumulation
Cd	19"+	2.5Y 5/4	Sandy loam	platy	firm	2% redox depletions 10% redox conc.	

COMMENTS: Under hemlock stand.

Open pit groundwater table depth (from the mineral soil surface):

8/1/12-**none**; 8/31/12-**none**; 9/14/12-**none**; 9/25/12-**none**; 10/4/12-**none**; 10/8/12-**15"**; 10/11/12-**12"**; 10/15/12-**13"**; 10/28/12-**16.5"**; 10/30/12-**6"**; 6/3/12-**12"**; 6/3/13-**12"**; 6/23/13-**16"**; 7/2/13-**6"**; 7/8/13-**7.5"**; 7/9/13-**10"**; 7/16/13-**none**; 7/30/13-**12"**; 7/31/13-**19"**; 8/6/13-**18"**; 8/13/13-**16"**; 8/22/13-**none**

SITE IDENTIFICATION: Mt. Blue: Site 3 pit #2

DRAINAGE CLASS: Poorly Drained

SOIL SERIES (CLOSEST MATCH): Lyme

HYDRIC CLASSIFICATION: Nat. F3; NE-VI

SSWWD DEPTH TO LIMITING FACTOR: 2E - 0" to swt

HORIZON	DEPTH (IN.)	MATRIX COLOR	TEXTURE	STRUCTURE	CONSISTENCE	REDOX FEATURES	NOTES / OBSERVATIONS
O	0"-7"						
Bg1 (Eg)	7"-11"	2.5y 5/1	Fine sandy loam	Sub-angular blocky	friable	none	Differential organic matter accumulation (25%) Stripped matrix
Bg2 (Eg)	11"-22"	5y 6/1	Fine sandy loam	Sub-angular blocky	friable	10% redox depletions 10% redox conc.	Redox depletions were on the gley page of the Munsell book
C	22"+	2.5y 5/4	Fine sandy loam/loam	massive	friable	10% redox depletions 40% redox conc.	

COMMENTS: Under hemlock stand.

Open pit groundwater table depth (from the mineral soil surface):

8/1/12-**none**; 8/31/12- **none**; 9/14/12-**10"**; 9/25/12-**4.5"**; 10/4/12-**3"**; 10/8/12-**2"**; 10/11/12-**1.5"**; 10/15/12- **1.5"**; 10/28/12-**3"**; 10/31/12-**1"**; 6/3/13-**1.5"**; 6/23/13-**3"**; 7/2/13-**(-)3"**; 7/8/13-**(-)1"**; 7/9/13-**0"**; 7/16/13-**4"**; 7/30/13-**2"**; 7/31/13-**4.5"**; 8/6/13-**2"**; 8/13/13-**2"**; 8/22/13-**9.5"**

SITE IDENTIFICATION: Mt. Blue: Site 3 pit #3

DRAINAGE CLASS: Poorly Drained

SOIL SERIES (CLOSEST MATCH): Brayton

HYDRIC CLASSIFICATION: Nat. F3; NE- VI

SSWWD DEPTH TO LIMITING FACTOR: 3E - 0" to swt

HORIZON	DEPTH (IN.)	MATRIX COLOR	TEXTURE	STRUCTURE	CONSISTENCE	REDOX FEATURES	NOTES / OBSERVATIONS
O	0"-5"						
Bg (Eg)	5"-12"	2.5y 5/1	Fine sandy loam	Sub-angular blocky	friable	none	Differential organic matter accumulation (25%) Stripped matrix
B/C	12"-20"	10yr 4/4	Fine sandy loam/loam	massive	friable	10% redox depletions 25% redox conc.	
C	20"+	?	?	?	firm	?	

COMMENTS: Under hemlock stand.

Open pit groundwater table depth (from the mineral soil surface):

8/1/12-**none**; 8/31/12-**11.5"**; 9/14/12-**3.5"**; 9/25/12-**0"**; 10/4/12-**0"**; 10/8/12-(-)**0.5"**; 10/11/12-(-)**2"**; 10/15/12-(-)**1.5"**; 10/28/12-**0"**; 10/30/12-(-)**2"**; 6/3/13-**1.5"**; 6/23/13-**3.5"**; 7/2/13-**0"**; 7/8/13-**1.5"**; 7/9/13-**0"**; 7/16/13-**3"**; 7/30/13-**2"**; 7/31/13-**2.5"**; 8/6/13-**2"**; 8/13/13-**2"**; 8/22/13-**6.5"**

SITE IDENTIFICATION: Mt. Blue: Site 3 pit #4

DRAINAGE CLASS: Very Poorly Drained

SOIL SERIES (CLOSEST MATCH): Searsport Variant (no spodic horizon)

HYDRIC CLASSIFICATION: Nat. F3; NE- IX.A.2

SSWWD DEPTH TO LIMITING FACTOR: 3E - 0" to swt

HORIZON	DEPTH (IN.)	MATRIX COLOR	TEXTURE	STRUCTURE	CONSISTENCE	REDOX FEATURES	NOTES / OBSERVATIONS
O	0"-5"						
A/E	5"-8"	10yr 4/1	Sandy loam	Sub-angular blocky	friable	none	Differential organic matter accumulation (10% 5y 6/1) Stripped matrix
Eg	8"-13"	2.5y 6/1	Sandy loam	Sub-angular blocky	friable	none	Differential organic matter accumulation (10% 5y 6/1) Stripped matrix
Bhs	13"-16"	5yr 3/2	Sandy loam	Sub-angular blocky	friable	none	Some mixing of colors attributed to podsolization
Bw	16"+	2.5y 5/3	Sandy loam	Sub-angular blocky	friable	20% relox depletions 30% relox conc.	Differential organic matter accumulation

COMMENTS: Under hemlock stand with obvious signs of wetland hydrology.

Open pit groundwater table depth (from the mineral soil surface):

8/1/12-**none**; 8/31/12-5"; 9/14/12-1.5"; 9/25/12-(-)4.5"; 10/4/12-(-)5.5"; 10/8/12-(-)6"; 10/11/12-(-)8"; 10/15/12-(-)6.5"; 10/28/12-(-)5"; 10/30/12-(-)2"; 6/3/13-1"; 6/23/13 (-)2"; 7/2/13-(-)1"; 7/8/13-0.5"; 7/9/13-4"; 7/16/13-(-)3"; 7/30/13-(-)3"; 7/31/13-(-)3"; 8/6/13-(-)3"; 8/13/13-(-)3"; 8/22/13-0"

Note: F3 requires relox concentrations in the A or Ap horizon but new guidance makes exception. Also, F3 requires a 6" thick horizon with a depleted or gleyed matrix and this pit requires two layers to make the 6" thickness.

SITE IDENTIFICATION: Mt. Blue: Site 2 pit #5

DRAINAGE CLASS: SWP

SOIL SERIES (CLOSEST MATCH): Colonel

HYDRIC CLASSIFICATION: Nat. - no; NE - no

SSWWD DEPTH TO LIMITING FACTOR: 3E- 2"

HORIZON	DEPTH (IN.)	MATRIX COLOR	TEXTURE	STRUCTURE	CONSISTENCE	REDOX FEATURES	NOTES / OBSERVATIONS
O	0"-11"						
E	11"-13"	2.5y 6/1	Fine sandy loam	granular	friable	none	Some organic matter streaking - not stripped matrix
Bs	13"-19"	7.5yr 4/4	Fine sandy loam	Sub-angular blocky	friable	5% redox conc.	Differential organic matter accumulation
B/C	19"-23"	10yr 5/3	Fine sandy loam	Sub-angular blocky	friable	10% redox conc.	Differential organic matter accumulation
Cd	23"+	10yr 5/3	Fine sandy loam	Massive/ platy	firm	5% redox depletions 25% redox conc.	
							In a depression on a side slope. Folistic epipedon likely due to leaves accumulating in depression

COMMENTS:

Open pit groundwater table depth (from the mineral soil surface):

8/1/12-**none**; 8/31/12-**none**; 9/14/12- **11"**; 9/25/12-**11"**; 10/4/12-**none**; 10/8/12- **10"**; 10/11/12-**8"**; 10/15/12-**9.5"**; 10/28/12-**9.5"**; 10/30/12-**1"**; 11/2/12-**0"**; 6/3/13-**8"**; 6/23/13-**8"**; 7/2/13-**9"**; 7/8/13-**1"**; 7/9/13-**4"**; 7/16/13-**none**; 7/31/13-**10"**; 8/6/13-**10"**; 8/13/13-**10"**; 8/22/13-**none**

SITE IDENTIFICATION: Mt. Blue: Site 2 pit #4

DRAINAGE CLASS: Poorly Drained

SOIL SERIES (CLOSEST MATCH): Brayton

HYDRIC CLASSIFICATION: Nat. A4; NE - II

SSWWD DEPTH TO LIMITING FACTOR: 3E - 0" to swt

HORIZON	DEPTH (IN.)	MATRIX COLOR	TEXTURE	STRUCTURE	CONSISTENCE	REDOX FEATURES	NOTES / OBSERVATIONS
O	0"-1"						
A1	1"-6"	2.5Y 2.5/1	Mucky loam	granular	friable	none	H2S Odor
A2	6"-12"	2.5y 4/1	Mucky loam	granular	friable	none	
B/C	12"-21"	10yr 4/4	Fine sandy loam	Sub-angular blocky	friable	10% redox depletions 10% redox conc.	
Cd	21"+	10yr 5/4	Fine sandy loam	Massive/ platy	firm	20% redox depletions 20% redox conc.	
							Pit and mound topography - more pits than mounds

COMMENTS:

Open pit groundwater table depth (from the mineral soil surface):

8/1/12-**none**; 8/31/12-**10"**; 9/14/12-**8"**; 9/25/12-**4.5"**; 10/4/12-**2"**; 10/8/12-**1.5"**; 10/11/12-**0.5"**; 10/15/12-**0"**; 10/28/12-**1.5"**; 10/30/12-**1"**; 11/2/12-**(-)2"**; 6/3/13-**0"**; 6/23/13-**0.5"**; 7/2/13-**(-)1"**; 7/8/13- **(-)1"**; 7/9/13-**(-)1"**; 7/16/13-**3.5"**; 7/30/13-**9"**; 7/31/13-**3"**; 8/6/13-**2"**; 8/13/13-**2"**; 8/22/13-**7.5"**

Note: This pit does not technically meet F3 in the National Indicators because it does not have any redox concentrations in the A2 horizon but new guidance lifts that requirement in some cases.

SITE IDENTIFICATION: Mt. Blue: Site 2 pit #3

DRAINAGE CLASS: Poorly drained

SOIL SERIES (CLOSEST MATCH): Brayton

HYDRIC CLASSIFICATION: Nat. F3; NE - VI

SSWWD DEPTH TO LIMITING FACTOR: 3E - 0" to swt

HORIZON	DEPTH (IN.)	MATRIX COLOR	TEXTURE	STRUCTURE	CONSISTENCE	REDOX FEATURES	NOTES / OBSERVATIONS
O	0"-2"						
A	2'-8"	7.5yr 2/2	Mucky loam	granular	friable	none	
Bg (Eg)	8"-12"	5y 6/1	V fine sandy loam	Sub-angular blocky	friable	20% redox conc.	
Cdg	12"+	5y 6/1	V fine sandy loam	Massive/ platy	firm	30% redox conc.	
							Pit and mound topography - more mounds than pits Beginning of groundwater seeps

COMMENTS:

Open pit groundwater table depth (from the mineral soil surface):

8/1/12-**none**; 8/31/12-**15"**; 9/14/12-**14"**; 9/25/12-**10"**; 10/4/12-**8"**; 10/8/12-**5.5"**; 10/11/12-**4.5"**; 10/15/12-**5"**; 10/28/12-**5.5"**; 10/30/12-**2"**; 11/2/12-**2"**; 6/3/13-**3"**; 6/23/13-**5"**; 7/2/13-**0"**; 7/8/13-**1"**; 7/9/13-**1"**; 7/16/13-**8"**; 7/31/13-**4.5"**; 8/6/13-**5"**; 8/13/13-**4"**; 8/22/13-**12"**

SITE IDENTIFICATION: Mt. Blue: Site 2 pit #2

DRAINAGE CLASS: SWP

SOIL SERIES (CLOSEST MATCH): Colonel

HYDRIC CLASSIFICATION: Nat. no; NE - no

SSWWD DEPTH TO LIMITING FACTOR: 3E - 0" to swt

HORIZON	DEPTH (IN.)	MATRIX COLOR	TEXTURE	STRUCTURE	CONSISTENCE	REDOX FEATURES	NOTES / OBSERVATIONS
O	0"-2"						
A	2"-10"	10yr 2/1	Mucky loam	granular	friable	none	
Bw	10"-16"	10yr 5/4	Fine sandy loam	Sub-angular blocky	friable	10% redox depletions 15% redox conc.	Differential organic matter accumulation
B/C	16"-22"	2.5y 4/3	Fine sandy loam	Sub-angular blocky	Somewhat firm	5% redox depletions 10% redox conc.	Differential organic matter accumulation
Cd	22"+	2.5y 4/4	Fine sandy loam	Massive/ platy	firm	5% redox depletions 10% redox conc.	

COMMENTS: Convex position on long moderately sloping side slope with a large contributing watershed.

Open pit groundwater table depth (from the mineral soil surface):

8/1/12-**none**; 8/31/12-**none**; 9/14/12-**15"**; 9/25/12-**15"**; 10/4/12-**13.5"**; 10/8/12-**11"**; 10/11/12-**9"**; 10/15/12-**9.5"**; 10/28/12-**10"**; 10/30/12-**0"**; 11/2/12-**4.5"**; 6/3/13-**8"**; 6/23/13-**9.5"**; 7/2/13-**(-)2"**; 7/8/13-**3"**; 7/9/13-**4.5"**; 7/16/13-**12"**; 7/31/13-**11.5"**; 8/6/13-**11"**; 8/13/13-**10"**; 8/22/13-**15"**

SITE IDENTIFICATION: Mt. Blue: Site 2 pit #1 **DRAINAGE CLASS:** Moderately Well Drained
SOIL SERIES (CLOSEST MATCH): Dixfield
HYDRIC CLASSIFICATION: Nat. - no; NE - no **SSWWD DEPTH TO LIMITING FACTOR:** 3C - 19" to swt

HORIZON	DEPTH (IN.)	MATRIX COLOR	TEXTURE	STRUCTURE	CONSISTENCE	REDOX FEATURES	NOTES / OBSERVATIONS
O	0"-2"						
Bs1	2"-6"	7.5yr 4/6	Fine sandy loam	granular	friable	none	
Bw	6"-21"	10yr 5/4	Sandy loam	Sub-angular blocky	friable	none	
B/C	21"-31"	2.5y 5/4	Sandy loam	Sub-angular blocky	friable	2% redox depletions 5% redox conc.	Differential organic matter accumulation
C(d)	31"+	?	?	?	?	?	End of excavation due to rocks

COMMENTS:

Open pit groundwater table depth (from the mineral soil surface):

8/1/12-**none**; 8/31/12-**none**; 9/14/12-**none**; 9/25/12-**none**; 10/4/12-**none**; 10/8/12-**none**; 10/11/12-**19"**; 10/15/12-**18"**; 10/28/12-**19"**; 10/30/12-**13"**;
11/2/12-**17"**; 6/3/13-**none**; 6/23/13-**17"**; 7/2/13-**5"**; 7/8/13-**16"**; 7/9/13-**none**; 7/16/13-**none**; 7/30/13-**none**; 7/31/13-**none**; 8/6/13-**none**; 8/13/13-**none**
8/22/13-**none**

SITE IDENTIFICATION: Mt. Blue: Site 1 pit #1

DRAINAGE CLASS: SWP

SOIL SERIES (CLOSEST MATCH): Naumburg

HYDRIC CLASSIFICATION: Nat. - no; NE - no

SSWWD DEPTH TO LIMITING FACTOR: 5D - 14" to swt

HORIZON	DEPTH (IN.)	MATRIX COLOR	TEXTURE	STRUCTURE	CONSISTENCE	REDOX FEATURES	NOTES / OBSERVATIONS
O	0"-3"						
A	3"-4"	10yr 3/2	Loamy sand	granular	Very friable	none	
E	4"-6"	10yr 5/1	Loamy sand	granular	Very friable	none	Some organic matter accumulation - not a stripped matrix
Bhs	6"-8"	5yr 3/3	Loamy sand	granular	Very friable	none	
Bs1	8"-12"	7.5yr 3/4	sand	none	loose	none	
Bs2	12"-17"	7.5yr 4/4	sand	none	loose	none	
Bw	17"-21"	10yr 4/4	sand	none	Loose	2% concentrations 2% redox depletions	Redox were above the cemented half of pit not above the non-cemented half
B/C	21"+	10yr 4/4	sand	none	Some moderate cementation	10% redox depletions 10% redox conc.	One side of pit had moderate cementation - the other side did not (for depth observed)
							Based on water table depth measurements, redox conc. may be relict.

COMMENTS:

Open pit groundwater table depth (from the mineral soil surface):

8/1/12-**none**; 8/31/12-**none**; 9/14/12-**none**; 9/25/12-**none**; 10/4/12-**none**; 10/8/12-**none**; 10/11/12-**none**; 10/15/12-**none**; 10/28/12-**none**; 10/30/12-**none**;
11/2/12-**none**; 6/3/13-**none**; 6/23/13-**none**; 7/2/13-**none**; 7/8/13-**none**; 7/9/13-**none**; 7/16/13-**none**; 7/30/13-**none**; 7/31/13-**none**; 8/6/13-**none**; 8/13/13-**none**;
8/22/13-**none**

SITE IDENTIFICATION: Mt. Blue: Site 1 pit #2 **DRAINAGE CLASS:** SWP
SOIL SERIES (CLOSEST MATCH): Naumburg
HYDRIC CLASSIFICATION: Nat. - no; NE - no **SSWD DEPTH TO LIMITING FACTOR:** 5D - 9" to swt

HORIZON	DEPTH (IN.)	MATRIX COLOR	TEXTURE	STRUCTURE	CONSISTENCE	REDOX FEATURES	NOTES / OBSERVATIONS
O	0"-5"						
E	5"-14"	7.5yr 6/1	Loamy sand	granular	V friable	none	Some organic matter streaking - not a stripped matrix
Bs	14"-16"	60% 7.5yr 4/3 40% 10yr 6/1	Loamy sand	granular	V friable	5% faint redox conc.	Differential organic matter accumulation: stripped matrix
Bhsm	16"-22"	7.5yr 3/3	Loamy sand	platy	cemented	none	Different shades due to podsolization process
Bs(m)	22"+	10yr 4/2	Loamy fine sand	massive	Somewhat firm	5% redox depletions 10% redox conc.	

COMMENTS:

Open pit groundwater table depth (from the mineral soil surface):

8/1/12-**none**; 8/31/12-**none**; 9/14/12-**none**; 9/25/12-**none**; 10/4/12-**none**; 10/8/12-**none**; 10/11/12-**none**; 10/15/12-**none**; 10/28/12-**none**; 10/30/12-**8"**;
11/2/12-**12"**; 6/3/13-**none**; 6/23/13-**16.5"**; 7/2/13-**2"**; 7/8/13-**11"**; 7/9/13-**18"**; 7/16/13-**none**; 7/30/13-**none**; 7/31/13-**none**; 8/6/13-**none**; 8/13/13-**none**
8/22/13-**none**

SITE IDENTIFICATION: Mt. Blue: Site 1 pit #3 **DRAINAGE CLASS:** Moderately Well/ Well Drained (SWP if Bhsm is a redox feature)

SOIL SERIES (CLOSEST MATCH): Croghan/Adams (Naumburg if you consider Bhsm to be a redox feature)

HYDRIC CLASSIFICATION: Nat. - S6; NE - no **SSWWD DEPTH TO LIMITING FACTOR:** 5E - 0" to swt

HORIZON	DEPTH (IN.)	MATRIX COLOR	TEXTURE	STRUCTURE	CONSISTENCE	REDOX FEATURES	NOTES / OBSERVATIONS
O	0"-5"						
E (g?)	5"-12"	80% 7.5yr 6/1 20% 7.5yr 4/2	Loamy sand	granular	friable	none	Differential organic matter accumulation: weak expression of a stripped matrix
Bhs(m)	12"-19"	5yr 3/2	Loamy sand	massive	Weak to moderate cementation	none	
Bs	19"-24"	10yr 3/3	sand	Single grain	loose	none	

COMMENTS:

Open pit groundwater table depth (from the mineral soil surface):
 8/1/12-**none**; 8/31/12-10"; 9/14/12-14"; 9/25/12-11"; 10/4/12-10"; 10/8/12-9"; 10/11/12-9"; 10/15/12-8.5"; 10/28/12-9"; 10/30/12-1"; 11/2/12-(-)0.5";
 6/3/13-8"; 6/23/13-9"; 7/2/13-9"; 7/8/13-2"; 7/9/13-5"; 7/16/13-10"; 7/30/13-9"; 7/31/13-10"; 8/6/13-9.5"; 8/13/13-9"; 8/22/13-15"

Note: This indicator does not fit the central concept of a stripped matrix where the matrix is the darker color. In this pit, the darker color was only 20% but it did have lower chroma areas that resemble a stripped matrix.

SITE IDENTIFICATION: Mt. Blue: Site 1 pit #4

DRAINAGE CLASS: VPD

SOIL SERIES (CLOSEST MATCH): Medomak (Searsport)

HYDRIC CLASSIFICATION: Nat. - A2, A4; NE - II, IV

SSWWD DEPTH TO LIMITING FACTOR: 5E - 0" to swt

HORIZON	DEPTH (IN.)	MATRIX COLOR	TEXTURE	STRUCTURE	CONSISTENCE	REDOX FEATURES	NOTES / OBSERVATIONS
Live sphagnum moss	2"-0"						
O	0"-10"						
A	10"-16"	10yr 2/2	Sandy loam	granular	friable	none	Slight H2S odor
Bg	16"-20"	2.5y 5/1	loam	Sub-angular blocky	friable	5% redox depletions 10% redox conc.	
Cg	20"+	?	Loamy sand	?	loose	?	Too saturated to get a clean sample with an auger to evaluate
							Layering in the upper part of the soil profile and texture indicate alluvial deposition over outwash

COMMENTS: At edge of stream/vernal pool/wetland.

Open pit groundwater table depth (from the mineral soil surface):

8/1/12-**none**; 8/31/12-7"; 9/14/12-5"; 9/25/12-1.5"; 10/4/12-0"; 10/8/12-(-)1"; 10/11/12-(-)1.5"; 10/15/12-(-)2"; 10/28/12-(-)1"; 10/30/12-(-)10"; 11/2/12-(-)9"; 6/3/12-9- (-)1"; 6/23/13-0"; 7/2/13-(-)2"; 7/8/13-(-)4.5"; 7/9/13-(-)4"; 7/16/13-0"; 7/30/13-(-)1"; 7/31/13-(-)1"; 8/13/13-(-)1.5" 8/22/13-2.5"